

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number  
**WO 2005/048987 A1**

(51) International Patent Classification<sup>7</sup>: **A61K 9/127**,  
47/24, 49/18

(21) International Application Number:  
PCT/JP2004/017649

(22) International Filing Date:  
19 November 2004 (19.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2003-392146 21 November 2003 (21.11.2003) JP

(71) Applicant (for all designated States except US): **FUJI  
PHOTO FILM CO., LTD.** [JP/JP]; 210, Nakanuma,  
Minami-ashigara-shi, Kanagawa, 2500193 (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **NISHIGAKI,  
Junji** [JP/JP]; c/o FUJI PHOTO FILM CO., LTD., 210,  
Nakanuma, Minami-ashigara-shi, Kanagawa, 2500193  
(JP).

(74) Agent: **SIKs & Co.**; 8th Floor, Kyobashi-Nisshoku Bldg.,  
8-7, Kyobashi 1-chome, Chuo-ku, Tokyo, 1040031 (JP).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,  
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: CONTRAST MEDIUM COMPRISING LIPOSOMES CONTAINING HYDROPHOBIC CHELATE COMPOUND

(57) Abstract: A liposome containing a hydrophobic chelate compound as a membrane component, and an MRI contrast medium containing the liposome for use in imaging of, preferably, a vascular disease. An MRI contrast medium that accumulates in a lesion of a vascular disease caused by abnormal proliferation of vascular smooth muscle cells such as arteriosclerosis is provided.



**WO 2005/048987 A1**